

E1+O1

Standard Package Automatic Loading System
For Daily Dyeing Capacity 10-15 tons
筒纱染厂标准型自动装纱系统，为10-15吨染厂量身定制



SIMOCCA
WINDING & AUTOMATION

EVOLUTION 沿革



秉承意大利科吉70多年的制造理念，2005年蒂玛特科吉纺织机械(上海)有限公司在上海开始生产各式纺织染整用络筒设备。近年来积极投入研发，先后推出了最先进的智能精密络筒机、精密绞纱络筒机、拨叉精密并纱机等高端络筒机，并配备了自动换管、自动落纱等配置，满足各类市场的需求。目前的产品不仅包括各式智能精密松、紧式络筒机、并纱机，在筒子纱纺纱、染色工序自动化上推出了松纱后码垛、染色纱笼自动装卸纱、离心脱水机自动装卸纱和自动进出缸、射频烘干机自动摆纱、单纱称重贴标包装机、自动装袋装箱贴标机及智能码垛机。

以上机器适合于加工各类纱线，涵盖了棉、毛、丝、麻天然纤维纱线和各式混纺纱线、花式纱线和合成纤维长丝以及各类缝纫线。

多年来公司产品遍及全球几十个国家，我们秉承欧洲设计和品质、中国成本和价格、快速服务响应的经营理念，为全球用户提供一流络筒及配套设备，不断进行技术创新，满足纺织行业当今智能化、自动化的强烈需求。

Adhering to the manufacturing philosophy of Italian Corghi for over 70 years, Tmart Corghi Textile Machinery (Shanghai) Ltd. began producing various types of winding machines in Shanghai in 2005. In recent years, we have actively invested in research and development, and have successively launched high-end winding machines such as the most advanced intelligent precision winding machine, precision hank to cone winding machine, and precision assembling winding machine, equipped with automatic tube changing, automatic doffing, and other configurations to meet the needs of various markets.

At present, our products not only include various intelligent precision and drum winding machines, but also automatic palletizing after soft winding, automatic loading and unloading of dyeing carrier, automatic loading and unloading of centrifugal carrier and machine, automatic placing on RF dryer, package weighing, labeling and packaging machine, automatic bagging, boxing and labeling machines, and intelligent palletizing for the spinning and package dyeing processes.

The above machines are suitable for processing various types of yarns, including cotton, wool, silk, linen natural fiber yarns, various blended yarns, fancy yarns, synthetic fiber yarns, and various sewing threads.

For many years, our company's products have been distributed in dozens of countries around the world. We adhere to the business philosophy of European design and quality, Chinese cost and price, and fast service response, providing first-class winding and automation for global users, constantly innovating technology, and meeting the strong demand for intelligence and automation in the textile industry today.



E1+O1型压角、自动装纱系统

Automatic Edge Pressing & Automatic Loading System

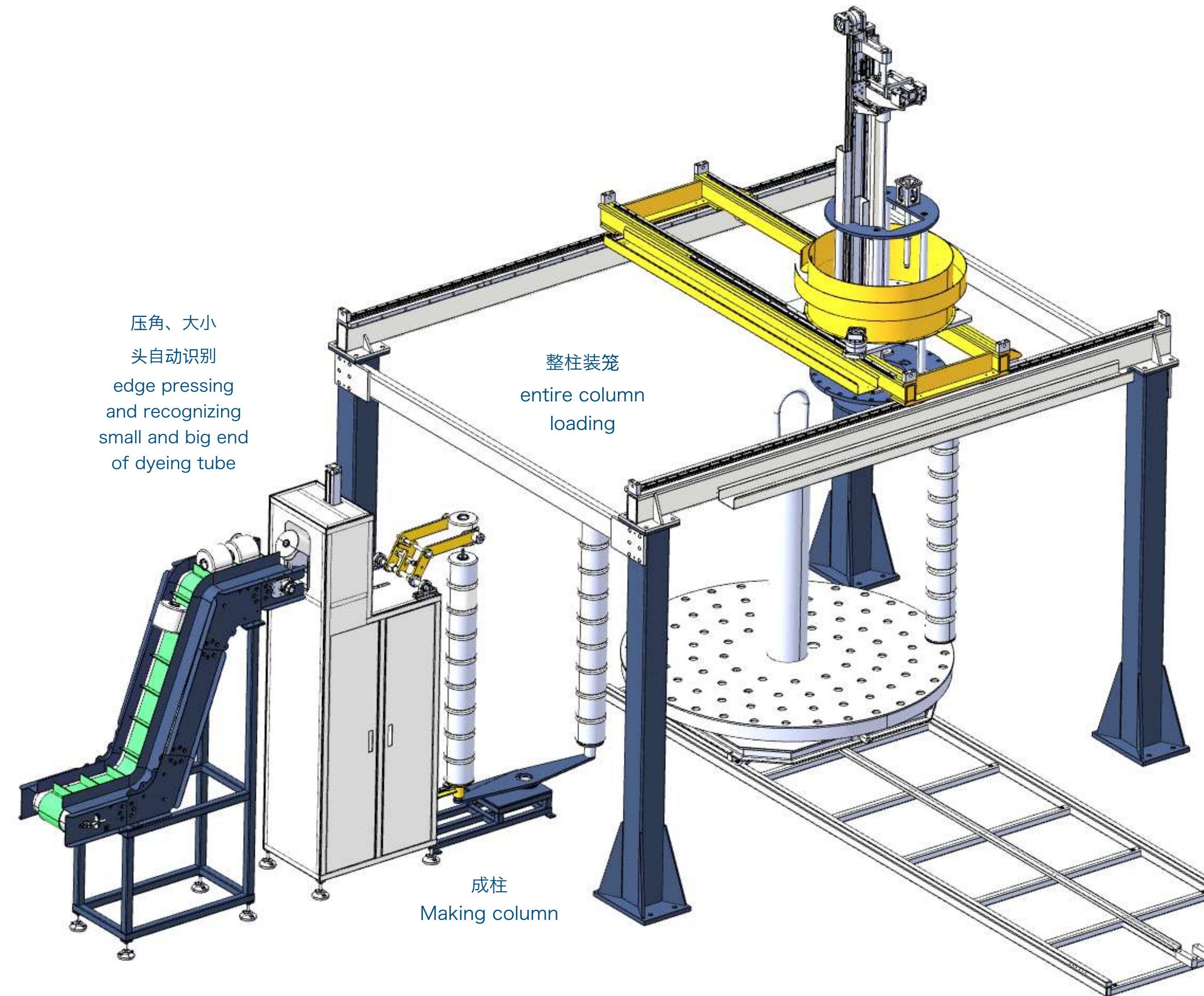
对于一个10-15吨左右的筒纱染厂，传统的压角和装纱需要3名操作工做压角码垛，年人工成本在30万元左右，并且招工困难。

此系统专门针对中等规模染厂设计，以自动化替代人工，降低运营成本。

For a daily dyeing capacity 10 to 15 tons package dyeing house, normally need 3 operator for edge pressing and loading.

Our system is specifically designed for small and middle size dye houses to reduce labor costs.

人工摆纱
Manually loading



Efficiency Calculation

效率计算

按照每天24小时, 1kg筒纱重量计算

24 hours working time per day and 1kg package weight

分步产量

Production on each step

1个筒纱压角摆纱耗时 (秒) Time consumption for one package edge pressing (Sec)	6
10层纱成柱耗时 (秒) Time consumption for creating one 10 layers column (Sec)	60
每天成柱数量 (85%效率) N. of column created per day (85% efficiency)	1224
机械手装一柱纱耗时 (秒) Time consumption for loading one column (Sec)	35
每天装柱数量 (85%效率) Daily column loaded per day (85% efficiency)	2098

配备一台压角机系统产量

Production with one edge pressing

如果每个筒纱重量 (公斤) Weight per package (kg)	1
每个纱柱10层 (公斤) Weight per column of 10 layers (kg)	10
一套压角机每天成柱数量 (85%效率) N. of column created per day by one edge pressing (85% efficiency)	1224
系统每日产量 (公斤) Production per day of the system (kg)	12240
装柱机械手产量 (公斤) Production per day of column loading (kg)	20983

配备二台压角机系统产量

Production with two edge pressing

如果每个筒纱重量 (公斤) Weight per package (kg)	1
每个纱柱10层 (公斤) Weight per column of 10 layers (kg)	10
两套压角机每天成柱数量 (85%效率) N. of column created per day by two edge pressing (85% efficiency)	2448
成柱机械手每日产量 (公斤) column creating production per day (kg)	24480
系统每日产量 (公斤) Production per day of the system (kg)	20983

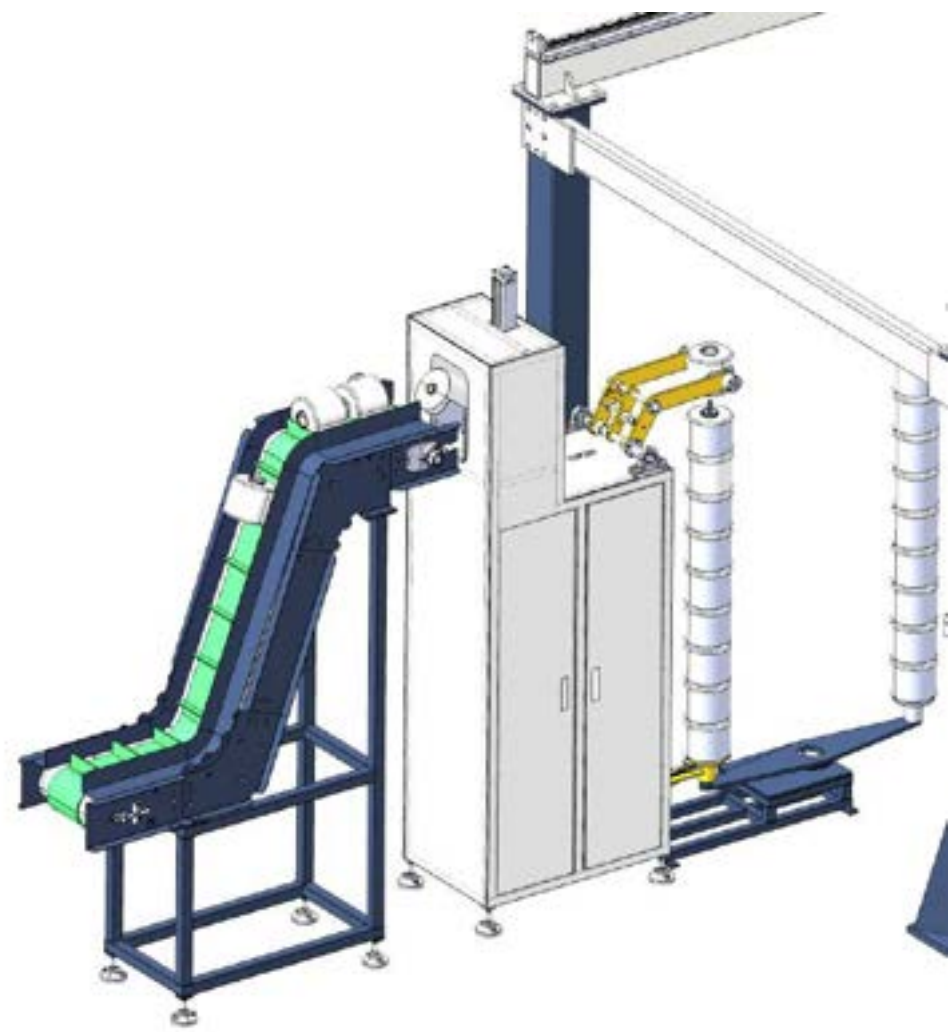


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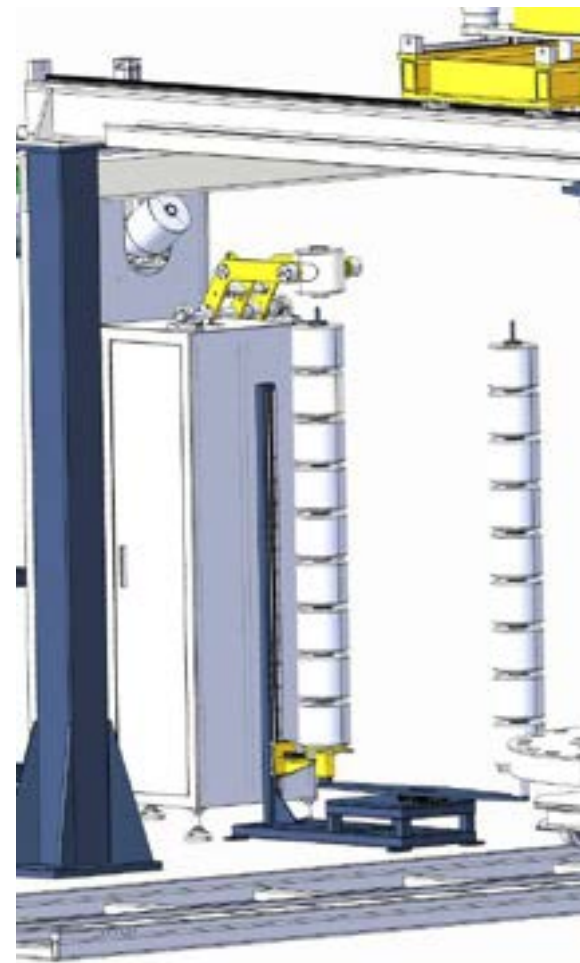
运行步骤

Working procedure

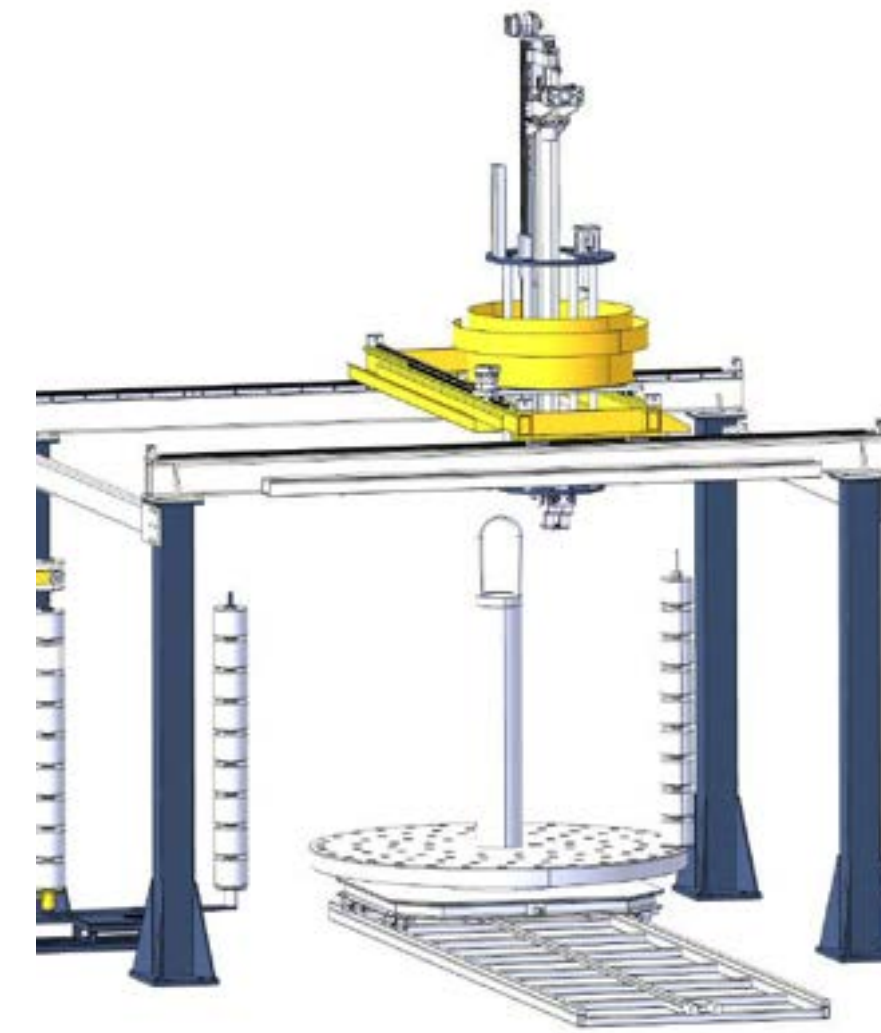
人工码放在输送线上, 自动进入压角机压角
Manually placed on the conveyor line, automatically enters the edge pressing machine to press



摆动机械手把压角后的筒纱码放到锭杆上
Automatic Swing robotic arm place the package onto the spindle rod



锭杆转入系统, 五轴机械手抓取纱柱放入染色纱笼
The spindle is transferred into the column loading area, and the five axis robotic arm grab the package column and places it into the dyeing carrier



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Technical Parameters 技术参数

输送线和压角机装机功率	0.6 KW
成柱及自动装纱机装机功率	8 KW
最小压缩空气压力	6 Bar
Install Power of conveyor belt and edge pressing	0.6 KW
Install Power of column automatic loading	8 KW
Min compressed air pressure	6 Bar

All Products 公司产品

D1,D1 plus,D2	数码精密导纱钩松式、紧式络筒机	Digital precision soft winding & rewinding
H1	数码精密导纱钩绞纱络筒机	Digital precision hank to cone winding
BR soft plus & BR rw plus	自动换管槽筒式松式、紧式络筒机	Auto doffing drum winding
AS1	数码精密拨叉并纱机	Digital precision assembling winding
E1	在线压角机	Edge pressing machine
O1	筒纱染色全流程自动化系统	Automatic loading and unloading system
C2+J1	离心脱水自动装卸笼系统	Automation system for centrifuge
L1	单纱称重打标包装及装箱、装袋码垛系统	weighing ,labeling and packing system
M1	射频烘干自动摆纱系统	Automatic loading on RF dryer

